

**REMARKS**

Applicants respectfully submit that the amendments add no new matter and are fully supported by the application as originally filed.

**Rejections under 35 U.S.C. §112**

The Examiner has rejected Claims 71, 72, 74, 77, and 80 under 35 U.S.C. §112, first paragraph, because the specification, while being enabling for an observed effective half life of approximately 20-30 seconds, does not reasonably provide enablement for an observed effective half life of approximately less than approximately 20-30 seconds.

The Examiner has rejected Claims 71, 72, 74, 77, 79 and 80 under 35 U.S.C. §112, first paragraph, as failing to comply with the written description requirement. He alleges that the claims contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The new matter pertains to an observed effective half life of approximately less than approximately 20-30 seconds.

Independent Claim 80 has been amended to remove the phrase, “or less”. Dependent Claims 71, 72, 74, 77, and 79 all depend from Claim 80 and therefore include all the features and limitations thereof.

The Examiner has rejected Claim 79 35 U.S.C. §112, first paragraph, because there is no support in the specification for the claimed detector efficiency of 10%.

Claim 79 has been amended to remove the phrase, “and having at least 10% efficiency”.

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Amendment dated: April 27, 2007  
Office Action of: December 27, 2006

### **CONCLUSIONS**

In view of the foregoing amendments, Applicants submit that the application is in condition for examination on the merits.

Please charge the \$60 fee for a one month extension of time and any additional fees that may be due, or credit overpayment to Deposit Account No. 120690.

Respectfully submitted,  
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